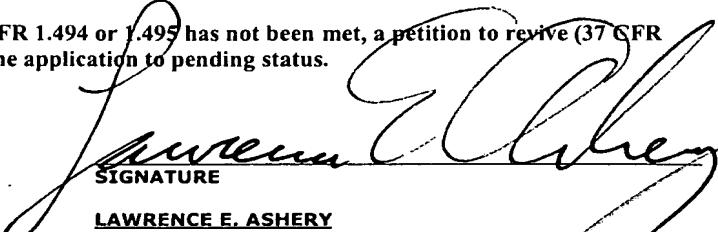


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| U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  |  | ATTORNEY'S DOCKET NUMBER                         |
| <b>TRANSMITTAL LETTER TO THE UNITED STATES<br/>DESIGNATED/ELECTED OFFICE (DO/EO/US)<br/>CONCERNING A FILING UNDER 35 U.S.C. 371</b>  |  | <b>MAT-8211US</b>                                |
| U.S. APPLICATION NO. (if known, see 37 CFR 1.5)<br><b>10/049170</b>  |  | PRIORITY DATE CLAIMED<br>07.06.00 (07 June 2000) |
| INTERNATIONAL APPLICATION NO. <b>PCT/JP01/04818</b> INTERNATIONAL FILING DATE <b>07.06.01 (07 June 2001)</b>   |  |  |
| TITLE OF INVENTION<br><b>METHOD FOR MANUFACTURING CERAMIC SUBSTRATE</b>  |  |  |
| APPLICANT(S) FOR DO/EO/US<br><b>Akira HASHIMOTO</b>  |  |  |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:  |  |  |
| <ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</li> <li>4. <input type="checkbox"/> The US has been elected by the expiration of 19 months from the priority date (Article 31).</li> <li>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))             <ol style="list-style-type: none"> <li>a. <input checked="" type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> has been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ol> </li> <li>6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).             <ol style="list-style-type: none"> <li>a. <input checked="" type="checkbox"/> is attached hereto.</li> <li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li> </ol> </li> <li>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))             <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> have been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input checked="" type="checkbox"/> have not been made and will not be made.</li> </ol> </li> <li>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</li> <li>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). (UNEXECUTED)</li> <li>10. <input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</li> </ol> |  |  |
| Items 11 to 20 below concern documents(s) or information included:   |  |  |
| <ol style="list-style-type: none"> <li>11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 U.S.C. 1.97 and 1.98.</li> <li>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</li> <li>13. <input checked="" type="checkbox"/> A <b>FIRST</b> preliminary amendment.</li> <li>14. <input type="checkbox"/> A <b>SECOND</b> or <b>SUBSEQUENT</b> preliminary amendment.</li> <li>15. <input type="checkbox"/> A substitute specification.</li> <li>16. <input type="checkbox"/> A change of power of attorney and/or address letter.</li> <li>17. <input type="checkbox"/> A computer readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821 – 1.825.</li> <li>18. <input type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4).</li> <li>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</li> <li>20. <input type="checkbox"/> Other items or information:</li> </ol>   |  |  |

| U.S. APPLICATION NO. (If known, see 37 CFR 1.6)<br><b>10/049170</b>   |              | INTERNATIONAL APPLICATION NO.<br><b>PCT/JP01/04818</b> | ATTORNEY OR AGENT NUMBER<br><b>MAT-8211US</b> |              |      |              |    |   |           |                    |   |   |           |  |  |  |            |                                      |           |
|---|--------------|--|---|--------------|------|--------------|----|---|-----------|--------------------|---|---|-----------|--|--|--|------------|--------------------------------------|-----------|
| <p>21. <input checked="" type="checkbox"/> The following fees are submitted:</p> <p><b>BASIC NATIONAL FEE (37 CFR 1.492(a)(1) – (5)):</b></p> <p><input checked="" type="checkbox"/> Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO... .... \$1040.00</p> <p><input checked="" type="checkbox"/> International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO.... .... \$890.00</p> <p><input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO ..... \$740.00</p> <p><input type="checkbox"/> International preliminary examination fee paid to USPTO (37 CFR 1.482) but all claims did not satisfy provisions of PCT Article 33(1)-(4) ..... \$710.00</p> <p><input type="checkbox"/> International preliminary examination fee paid to USPTO (37 CFR 1.482) and all claims satisfied provisions of PCT Article 33(1)-(4) ..... \$100.00</p> |              | <b>CALCULATIONS PTO USE ONLY</b>                       |   |              |      |              |    |   |           |                    |   |   |           |  |  |  |            |                                      |           |
| <p><b>ENTER APPROPRIATE BASIC FEE AMOUNT =</b></p> <p>Surcharge of \$130.00 for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input checked="" type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(e)).</p>  |              | \$ 890.00  |   |              |      |              |    |   |           |                    |   |   |           |  |  |  |            |                                      |           |
| <table border="1"> <thead> <tr> <th>CLAIMS</th> <th>NUMBER FILED</th> <th>EXTRA NUMBER</th> <th>RATE</th> </tr> </thead> <tbody> <tr> <td>Total claims</td> <td>19</td> <td>0</td> <td>X \$18.00</td> </tr> <tr> <td>Independent claims</td> <td>3</td> <td>0</td> <td>X \$84.00</td> </tr> <tr> <td colspan="2">MULTIPLE DEPENDENT CLAIM(S) (if applicable) <input type="checkbox"/></td> <td></td> <td>+ \$280.00</td> </tr> </tbody> </table>  |              | CLAIMS   | NUMBER FILED                                  | EXTRA NUMBER | RATE | Total claims | 19 | 0 | X \$18.00 | Independent claims | 3 | 0 | X \$84.00 | MULTIPLE DEPENDENT CLAIM(S) (if applicable) <input type="checkbox"/> |  |  | + \$280.00 | <b>TOTAL OF ABOVE CALCULATIONS =</b> | \$ 890.00 |
| CLAIMS  | NUMBER FILED | EXTRA NUMBER   | RATE  |              |      |              |    |   |           |                    |   |   |           |  |  |  |            |                                      |           |
| Total claims  | 19           | 0  | X \$18.00                                     |              |      |              |    |   |           |                    |   |   |           |  |  |  |            |                                      |           |
| Independent claims  | 3            | 0  | X \$84.00                                     |              |      |              |    |   |           |                    |   |   |           |  |  |  |            |                                      |           |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable) <input type="checkbox"/>  |              |  | + \$280.00                                    |              |      |              |    |   |           |                    |   |   |           |  |  |  |            |                                      |           |
| <p><input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by ½.</p>   |              | <b>SUBTOTAL =</b>                                      | \$ 890.00                                     |              |      |              |    |   |           |                    |   |   |           |  |  |  |            |                                      |           |
| <p>Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input checked="" type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)).</p>  |              | \$   |   |              |      |              |    |   |           |                    |   |   |           |  |  |  |            |                                      |           |
| <p><b>TOTAL NATIONAL FEE =</b></p> <p>Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property</p>  |              | \$ 890.00  |   |              |      |              |    |   |           |                    |   |   |           |  |  |  |            |                                      |           |
| <p><b>TOTAL FEES ENCLOSED =</b></p>   |              | <b>Amount to be refunded:</b>                          | \$  |              |      |              |    |   |           |                    |   |   |           |  |  |  |            |                                      |           |
|   |              | <b>Charged:</b>  | \$  |              |      |              |    |   |           |                    |   |   |           |  |  |  |            |                                      |           |
| <p>a. <input checked="" type="checkbox"/> A check in the amount of <u>\$890.00</u> to cover the above fees is enclosed.</p> <p>b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$_____ to cover the above fees. A duplicate copy of this sheet is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>18-0350</u>. A duplicate copy of this sheet is enclosed.</p> <p>d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.</p>   |              |  |   |              |      |              |    |   |           |                    |   |   |           |  |  |  |            |                                      |           |
| <p><b>NOTE:</b> Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.</p>   |              |  |   |              |      |              |    |   |           |                    |   |   |           |  |  |  |            |                                      |           |
| <p><b>SEND ALL CORRESPONDENCE TO:</b></p> <p>Lawrence E. Ashery<br/>Ratner &amp; Prestia<br/>P.O. Box 980<br/>Valley Forge, PA 19482<br/>(610) 407-0700</p>   |              |  |   |              |      |              |    |   |           |                    |   |   |           |  |  |  |            |                                      |           |
| <p><br/> <b>SIGNATURE</b><br/> <b>LAWRENCE E. ASHERY</b><br/> <b>NAME</b><br/> <b>34,515</b><br/> <b>REGISTRATION NUMBER</b><br/> <b>February 7, 2002</b><br/> <b>DATE</b> </p>   |              |  |   |              |      |              |    |   |           |                    |   |   |           |  |  |  |            |                                      |           |